

WHAT IS CLAIMED IS:

1. A linear motion link device comprising an actuator and a holding brake which holds and locks a movable portion of said actuator, and freely telescopes in a longitudinal direction of the linear motion link device by driving of said actuator.

2. The linear motion link device according to Claim 1, wherein said holding brake holds and locks said movable portion of said actuator at a stop of said actuator.

3. The linear motion link device according to Claim 1 or 2, further comprising:

a motor as said actuator;

a long bar-shaped male screw shaft portion fixed to a rotary shaft of said motor and provided in the longitudinal direction of said linear motion link device;

a female screw nut portion screw-engaged with said male screw shaft portion;

an inner rod portion which is fixed to said female screw nut portion and slides in the longitudinal direction of said linear motion link device by driving of said motor; and

a holding brake which holds and locks said rotary shaft of said motor.

4. A bipedal walking robot comprising:

a base;
a right foot and a left foot;
a plurality of passive joints respectively provided on said base, said right foot and said left foot;

parallel link mechanism portions respectively provided between said passive joints provided on said base and said passive joints provided on said right foot and between said passive joints provided on said base and said passive joints provided on said left foot; and

the linear motion link devices according to any one of Claims 1 to 3 as a link of said parallel link mechanism portions.

5. The bipedal walking robot according to Claim 4, further comprising:

the respective three sets of said parallel link mechanism portions which are provided between said base and said right foot and between said base and said left foot.